Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Project Division Yelahanka

Name of Work: Improvements CC Road and Drain at Kattigenahalli, Dwarakanagara, Palanahalli and surrounding area in ward No. 05

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
1	KSRRB 300-1. **Earthwork excavation** by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete asper specifications.MORTH / Chapter 3(I No-19.1, P No-133)								
	Basic rate	82.00							
	11% AD-HOC	9.02							
	Sub Total-1	91.02							
	6% AW	5.46							
	Sub Total-2	96.48							
	5.00km Lead, Lift	84.00							
	Sub Total	180.48							
	Opp. BBMP Park	1	50.00	2.00	1.50	150.00			
	Palanahalli cr road	1	86.00	1.10	1.00	94.60			
	cross road	1	198.00	1.10	1.00	217.80			
	Culvert	4	6.00	1.50	1.00	36.00			
	Desilt								
	Ample premium road	2	140.00	0.50	0.45	63.00			
						561.40	**Cum**	**180.48**	**101322.15**
2	KSRB 4-1.2 : Providing and laying in position **plain cement concrete of mix 1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms^thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2.(P.No-12,I No-4.2)								
	Basic rate	5046.00							
	11% AD-HOC	555.06							
	Sub Total-1	5601.06							
	6% AW	336.06							
	Sub Total-2	5937.12							
	Opp. BBMP Park	1	50.00	1.80	0.20	18.00			
	Palanahalli cr road	1	86.00	1.10	0.15	14.19			
	cross road	1	198.00	1.10	0.15	32.67			
	Culvert	4	6.00	1.50	0.20	7.20			
	CC Road								
	Palanahalli cr road	1	86.00	7.00	0.15	90.30			
	kattigenahalli cr road	1	52.00	5.00	0.15	39.00			
	kattigenahalli Gully	1	94.00	4.30	0.15	60.63			
	Ample premium road	1	140.00	7.80	0.15	163.80			
						425.79	**Cum**	**5937.12**	**2527967.86**

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
3	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of **design mix M20** with OPC cement @ 320kgs, with 20mmand down size graded granite metal coarse aggregates @0.0.69cum and fine aggregtes @ 0.460cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1, 4.6(I No-4.11,P No-13)								
	Basic rate	6011.00							
	11% AD-HOC	661.21							
	Sub Total-1	6672.21							
	6% AW	400.33							
	Sub Total-2	7072.54							
	Raft								
	Opp. BBMP Park	1	50.00	1.80	0.20	18.00			
	Palanahalli cr road	1	86.00	0.90	0.15	11.61			
	cross road	1	198.00	0.90	0.15	26.73			
	Wall								
	Opp. BBMP Park	2	50.00	0.20	1.00	20.00			
	Palanahalli cr road	2	86.00	0.15	0.60	15.48			
	cross road	2	198.00	0.15	0.60	35.64			
	Culvert raft	4	6.00	1.20	0.20	5.76			
	Culvert wall	8	6.00	0.20	0.70	6.72			
						139.94	**Cum**	**7072.54**	**989731.61**
4	KSRB 4-6.4 : Providing and **removing centering, shuttering,** strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2								
	Basic rate	293.00							
	11% AD-HOC	32.23							
	Sub Total-1	325.23							
	6% AW	19.51							
	Sub Total-2	344.74							
	cross road	4	198.00		0.60	475.20			
	Palanahalli cr road	4	86.00		0.60	206.40			
	Opp. BBMP Park	4	50.00		1.00	200.00			
	Culvert wall	16	6.00		0.70	67.20			
						948.80	**Sqm**	**344.74**	**327092.92**

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
5	KSRB 4.9.2 : Providing **T.M.T steel reinforcement** for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.Specification No. KBS 4.6.3(I No-4.46.2,P No-17)								
	Basic rate	60607.00							
	11% AD-HOC	6666.77							
	Sub Total-1	67273.77							
	6% AW	4036.43							
	Sub Total-2	71310.20							
	Consider small drain60kg/Cum	1	89.46	60.00		**5367.60**			
	Consider secondary drain 80kg/Cum	1	50.48	80.00		**4038.40**			
						9.41	**Tn**	**71310.20**	**670743.71**
6	Providing and Fixing **pre cast covering Slab** made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Basic rate	2100.00							
	cross road	1	198.00	0.90		178.20			
	Palanahalli cr road	1	86.00	0.90		77.40			
	Opp. BBMP Park	1	50.00	1.80		90.00			
						345.60	**Sqm**	**2100.00**	**725760.00**
7	Providing and Fixing **pre cast covering Slab** made out of CC 1:2:4 with 250mm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Basic rate	5111.00							
	Culvert	4	6.00	1.20		28.80			
						28.80	**Sqm**	**5111.00**	**147196.80**
8	KSRRB M300-14. **Excavation for roadwork** in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1km and complete as per specifications. MORTH Specification No.301(P.No. 143, I.No. 19.14)								
	Basic rate	46.00							
	11% AD-HOC	5.06							
	Sub Total-1	51.06							
	6% AW	3.06							
	Sub Total-2	54.12							
	5.00km Lead, Lift	84.00							
	Sub Total	138.12							
	kattigenahalli cr road	1	52.00	5.00	0.30	78.00			
	kattigenahalli Gully	1	94.00	4.30	0.25	101.05			
	Palanahalli cr road	1	86.00	7.00	0.30	180.60			
	Ample premium road	1	140.00	7.80	0.30	327.60			
						687.25	**Cum**	**138.12**	**94,925.44**

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
9	KSRRB 300-**Compaction KSRRB 300-58. Compaction** of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3(P.No. 149,								
	Basic rate	5.00							
	11% AD-HOC	0.55							
	Sub Total-1	5.55							
	6% AW	0.33							
	Sub Total-2	5.88							
	kattigenahalli cr road	1	52.00	5.00		260.00			
	kattigenahalli Gully	1	94.00	4.30		404.20			
	Palanahalli cr road	1	86.00	7.00		602.00			
	Ample premium road	1	140.00	7.80		1092.00			
						2358.20	**Sqm**	**5.88**	**13,873.29**
10	KSRRB M400-6.1. Construction of **granular sub-base** by providing close graded crushed stone aggregates of granite / trap / basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method. - For Grading II Material (P.No.155, I.No. 20.4.2)								
	Basic rate	1571.00							
	11% AD-HOC	172.81							
	Sub Total-1	1743.81							
	6% AW	104.63							
	Sub Total-2	1848.44							
	kattigenahalli cr road	1	52.00	5.00	0.15	39.00			
	kattigenahalli Gully	1	94.00	4.30	0.15	60.63			
	Palanahalli cr road	1	86.00	7.00	0.15	90.30			
	Ample premium road	1	140.00	7.80	0.15	163.80			
						353.73	**Cum**	**1848.44**	**653848.19**
11	KSRB 4-1.5 : Providing and laying in position plain **cement concrete of mix M20** with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No. 4.5 of PWD SR 2015-								
	Basic rate	5542.00							
	11% AD-HOC	609.62							
	Sub Total-1	6151.62							
	6% AW	369.10							
	Sub Total-2	6520.72							
	CC Road								
	kattigenahalli cr road	1	52.00	5.00	0.15	39.00			
	kattigenahalli Gully	1	94.00	4.30	0.15	60.63			
	Palanahalli cr road	1	86.00	7.00	0.15	90.30			
	Ample premium road	1	140.00	7.80	0.15	163.80			
						353.73	**Cum**	**6520.72**	**2306573.30**

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
12	**Vaccum de-watering** with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.(P.No.177, I.No. 22.7)								
	Basic rate	90.00							
	11% AD-HOC	9.90							
	Sub Total-1	99.90							
	6% AW	5.99							
	Sub Total-2	105.89							
	CC Road								
	kattigenahalli cr road	1	52.00	5.00		260.00			
	kattigenahalli Gully	1	94.00	4.30		404.20			
	Palanahalli cr road	1	86.00	7.00		602.00			
	Ample premium road	1	140.00	7.80		1092.00			
						2358.20	**Sqm**	**105.89**	**249719.23**
13	Providing **groove cutting** for width of 5mm to 10mm and depth 80mm- 100mm including cost of cutting machine, generator & HOM of machinery, including cost of blade,coolant etc., including cleaning of groove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications. - for concrete pavement (P.No.177, I.No. 22.7)								
	Basic rate	115.00							
	11% AD-HOC	12.65							
	Sub Total-1	127.65							
	6% AW	7.66							
	Sub Total-2	135.31							
	CC Road								
	kattigenahalli cr road	1	52.00			52.00			
	kattigenahalli Gully	1	94.00			94.00			
	Palanahalli cr road	1	86.00			86.00			
	Ample premium road	1	140.00			140.00			
		64	7.00			448.00			
						820.00	**mtr**	**135.31**	**110953.38**

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
							Total Construction Cost	8921260.38
							KRIDL Charges	981338.64
							Towards PMC Cost	97,400.00
							Sub Total	9999999.03
							Utility Shifting,Miscellaneous and Rounding off	0.97
							GRAND TOTAL	10000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2016-2017, issue rates and Data Rates. 11% AD-HOC is added as per order issued on 06-02-2018

Assistant Engineer
Project Division Yelahanka
BBMP Bangalore

Asst. Executive Engineer,
Project Division Yelahanka
BBMP Bangalore

Executive Engineer,
Project Division Yelahanka
BBMP Bangalore
7/2/18

Administrative Approval

Accorded For 100.00 Lakhs only
Head of A/C P3158
CER NO :123 Dt:8/2/18

E.E. (Project) 8/2

Technical Sanction

Accorded For 100.00 Lakhs only
Head of A/C P3158
CER NO :619 Dt:08/02/18

TA : CE (YNK)